

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3	(notice or notification or acknowledgement or ack) same (allocate or allocated or allocation) same (virtual adj volume)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 20:02
L2	23989453	@ad<"20030528"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 20:02
L3	0	1 and 2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 20:02

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	49	("5404478" "6195730" "6253224" "6690400" "6883073" "5459872" "5440686" "6453392" "4429360" "5367698" "6021462" "4868734" "4985825" "5241666" "5371855" "5410700" "5426747" "5446861" "5555385" "5581736" "5603008" "5649139" "5787466" "6138208" "6182197" "6199141" "6199151" "6226730" "6226730" "3829840" "4298927" "4310883" "4424564" "4467421" "4574284" "4797812" "4821169" "4825412" "4847902" "4862349" "4891749" "4899275" "4947319" "4980822" "4985828" "5003459" "5237661" "5245702" "5247672" "5317705").pn.	USPAT	OR	ON	2005/08/17 16:44
L2	186871	log	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:09
L3	7	L1 and L2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 16:44
L4	54380	free adj space	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 16:44
L5	7	L1 and L4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 16:44
L6	578	virtual adj volume	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 16:44
L7	6	free adj space adj management adj table	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:41
L8	1	L7 and L6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 16:44
L9	6	free adj space adj management adj table	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 16:44

L10	64	free adj space same management adj table	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 16:44
L11	1	L6 and L10	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:39
L12	47	L4 and L6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 16:44
L13	23989453	@ad<"20030528"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 16:44
L14	35	L12 and L13	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 16:44
L15	1337	711/202.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:07
L16	176	711/221.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:07
L17	1750	711/170.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:08
L18	728	711/111.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:08
L19	1470	711/112.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:08
L20	1778	711/114.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:08

L21	6135	15 or 16 or 17 or 18 or 19 or 20	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:08
L22	213775	log or logged or logging	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:09
L23	1	(predetermined adj size) with (allocate or allocated or allocation) with L6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:36
L24	18	(allocate or allocated or allocation) with L6 with size	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:11
L25	25	(allocate or allocated or allocation) with L6 with (size or amount or quantity)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:11
L26	25	24 or 25	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:12
L27	11	21 and 26	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:12
L28	4	13 and 27	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:13
L29	10	"20020091898".pn. or "6032224".pn. or "6799245".pn. or "20020112113".pn. or "20020120822".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:15
L30	0	L29 and L25	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:16
L31	1	L29 and L6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:17

L32	6	4 and 25	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:17
L33	10	22 and 25	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:17
L34	14	32 or 33	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:18
L35	10	13 and 34	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:20
L36	4	(predetermined adj size) with L6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:36
L37	3	13 and 36	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:36
L38	1	6 same 10	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:39
L39	6	7 same 10	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:40
L40	1	7 same 6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:40
L41	1	6 and 10	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:40
L42	3	7 and 13	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:41

L43	653	free adj space near5 (table or list)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:41
L44	3	6 with 43	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:42
L45	581	13 and 43	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:42
L46	2	13 and 44	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:42

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	54	(extend with logical adj volume) or (extending with logical adj volume)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:49
L2	4	1 same virtual adj volume	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:49
L3	23989453	@ad<"20030528"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/17 17:49
L5	5	"20020091898".pn. or "6032224".pn. or "6799245".pn. or "20020112113".pn. or "20020120822".pn.	US-PGPUB; USPAT	OR	ON	2005/08/17 17:56

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» Key

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IEE JNL	IEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

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Terms used [extending logical volumes](#) [virtual volume](#)

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Relevance scale ☐ ☐ ☐ ☐ ☐

1 [The HP AutoRAID hierarchical storage system](#)

John Wilkes, Richard Golding, Carl Staelin, Tim Sullivan

February 1996 **ACM Transactions on Computer Systems (TOCS)**, Volume 14 Issue 1

Full text available: [pdf\(1.82 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Configuring redundant disk arrays is a black art. To configure an array properly, a system administrator must understand the details of both the array and the workload it will support. Incorrect understanding of either, or changes in the workload over time, can lead to poor performance. We present a solution to this problem: a two-level storage hierarchy implemented inside a single disk-array controller. In the upper level of this hierarchy, two copies of active data are stored to provide f ...

Keywords: RAID, disk array, storage hierarchy

2 [Learnability of a subclass of extended pattern languages](#)

Andrew R. Mitchell

July 1998

Proceedings of the eleventh annual conference on Computational learning theory

Full text available: [pdf\(1.05 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

3 [Contributed papers: The donkey strikes back: extending the dynamic interpretation "constructively"](#)

Tim Fernando

April 1993

Proceedings of the sixth conference on European chapter of the Association for Computational Linguistics

Full text available:

[pdf\(819.83 KB\)](#) [Publisher](#) [Site](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

The dynamic interpretation of a formula as a binary relation (inducing transitions) on states is extended by alternative treatments of implication, universal quantification, negation and disjunction that are more "dynamic" (in a precise sense) than the usual reductions to tests from quantified dynamic logic (which, nonetheless, can be recovered from the new connectives). An analysis of the "donkey" sentence followed by the assertion "It will kick back" is provided.

4 [The semantic foundations of concurrent constraint programming](#)

Vijay A. Saraswat, Martin Rinard, Prakash Panangaden

January 1991

Proceedings of the 18th ACM SIGPLAN-SIGACT symposium on Principles of programming languages

Full text available: [pdf\(2.33 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

5 [An epistemic logic of situations: extended abstract](#)

Paul F. Syverson

March 1994

Proceedings of the 5th conference on Theoretical aspects of reasoning about knowledge

Full text available: [pdf\(992.69 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

In this paper we present a first order epistemic logic that incorporates the essentially finite character of what is actually known by any knower. Our logic and language allows us to represent familiarity with individuals including individual situations. It is also a logic of limited awareness in the manner of [FH88]. It is adequate for the syntactic characterization of the shared-situation account of common knowledge [Bar89]. Finally, it is sound and complete with respect to the presented se ...

6 High performance file system for supercomputing environment

H. Nishino, S. Naka, K. Ikumi, W. Leslie

August 1989

Proceedings of the 1989 ACM/IEEE conference on Supercomputing

Full text available:  pdf(915.21 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

SUPER-UX is a high performance UNIX operating system for NEC SX-3/SX-X supercomputer and has many enhanced facilities to make available the maximum SX-3/SX-X computing power (peak speed of 22GFLOPS) to users. This paper presents the SUPER-UX file system, a strong point of SUPER-UX, which is based on the standard UNIX file system to satisfy scientific computing environment requirements for I/O performance and facilities.

7 NEXP TIME-complete description logics with concrete domains

Carsten Lutz

October 2004

ACM Transactions on Computational Logic (TOCL), Volume 5 Issue 4

Full text available:  pdf(477.23 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Concrete domains are an extension of Description Logics (DLs) that allow one to integrate reasoning about conceptual knowledge with reasoning about "concrete qualities" of real-world entities such as their sizes, weights, and durations. In this article, we are concerned with the complexity of Description Logics providing for concrete domains: starting from the complexity result established in Lutz [2002b], which states that reasoning with the basic propositionally closed DL with concrete domains ...

Keywords: Computational complexity, NExpTime-completeness, concrete domains, description logic, domino problem, post correspondence problem

8 A structural view of the Cedar programming environment

Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann

August 1986

ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 8 Issue 4

Full text available:  pdf(6.32 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


This paper presents an overview of the Cedar programming environment, focusing on its overall structure—that is, the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers whose activities include experimental programming and the development of prototype software systems for a high-performance personal computer. T ...

9 Verifying CPS transformations in Isabelle/HOL

Yasuhiko Minamide, Koji Okuma

August 2003

Proceedings of the 2003 workshop on Mechanized reasoning about languages with variable binding

Full text available:  pdf(171.30 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We have verified several versions of the CPS transformation in Isabelle/HOL. In our verification we adopted first-order abstract syntax with variable names so that the formalization is close to that of hand-written proofs and compilers. To simplify treatment of fresh variables introduced by the transformation, we introduced abstract syntax parameterized with the type of variables. We also found that the standard formalization of α -equivalence was cumbersome for theorem provers and reformu ...

Keywords: correctness proofs, program transformation, theorem proving

10 Exponential lower bounds for the pigeonhole principle

Paul Beame, Russell Impagliazzo, Jan Krajíček, Toniann Pitassi, Pavel Pudlák, Alan Woods

July 1992

Proceedings of the twenty-fourth annual ACM symposium on Theory of computing

Full text available:  pdf(1.81 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

11 Interaction: Real-time haptic sculpting in virtual volume space

Hui Chen, Hanqiu Sun

November 2002

Proceedings of the ACM symposium on Virtual reality software and technology

Full text available:  pdf(523.69 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Virtual sculpture is a modeling technique for computer graphics based on the notion of sculpting a solid material with tools. Currently, most interactive sculpture is mainly focused on vision-based sensory channel. With visual feedback alone virtual sculpture cannot simulate the realistic sculpting operations in the physical world. The sense of touch, in combination with our kinesthetic sense, is capable of adding a new modality to virtual sculpture, especially in presenting complex geometry & m ...

Keywords: haptic interaction, virtual reality, virtual sculpture, volume rendering

12 Coordination in MAS: Distribution of goals addressed to a group of agents

Laurence Cholvy, Christophe Garion

July 2003

Proceedings of the second international joint conference on Autonomous agents and multiagent systems

Full text available:  pdf(233.80 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The problem investigated in this paper is the distribution of goals addressed to a group of rational agents. Those agents are characterized by their ability (i.e. what they can do), their knowledge about the world and their commitments. The goals of the group are represented by conditional preferences. In order to deduce the actual goals of the group, we determine its ability using each agent's ability and we suppose that the agents share a common knowledge about the world. The individual goals o ...


Keywords: goal selection, modal logic, multiagent systems, qualitative decision theory, theories of rational agency

13 FAB: building distributed enterprise disk arrays from commodity components

Yasushi Saito, Svend Frølund, Alistair Veitch, Arif Merchant, Susan Spence

October 2004

Proceedings of the 11th international conference on Architectural support for programming languages and operating systems, Volume 32 , 38 , 39 Issue 5 , 5 , 11

Full text available:  pdf(671.67 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


This paper describes the design, implementation, and evaluation of a Federated Array of Bricks (FAB), a distributed disk array that provides the reliability of traditional enterprise arrays with lower cost and better scalability. FAB is built from a collection of *bricks*, small storage appliances containing commodity disks, CPU, NVRAM, and network interface cards. FAB deploys a new majority-voting-based algorithm to replicate or erasure-code logical blocks across bricks and a reconfigurati ...

Keywords: consensus, disk array, erasure coding, replication, storage, voting

14 Book review: Semantic Foundations of Logic Volume 1: Propositional Logics by Richard L. Epstein
With assistance and collaboration of Walter A. Carnielli Itala, M. L. D'Ottaviano, Stanislav Krejewski,
Roger D. Maddux (Kluwer Academic Publishers, 1990)

Walt Truszkowski

February 1991 **ACM SIGART Bulletin**, Volume 2 Issue 2

Full text available:  pdf(370.44 KB)

Additional Information: [full citation](#), [abstract](#)

This is not your typical book on logic. The novel tone of this book is established by the author's desire for unity among the various logics which have been introduced to date. The basic questions addressed by this book are: "If logic is objective how come there are so many logics? Is there one right logic, or many right ones? Is there some underlying unity that connects them?" [Preface] In answering these questions it becomes apparent that a major pre-occupation of the author lies with understa ...

15 Minerva: An automated resource provisioning tool for large-scale storage systems

Guillermo A. Alvarez, Elizabeth Borowsky, Susie Go, Theodore H. Romer, Ralph Becker-Szendy, Richard Golding, Arif Merchant, Mirjana Spasojevic, Alistair Veitch, John Wilkes

November 2001 **ACM Transactions on Computer Systems (TOCS)**, Volume 19 Issue 4

Full text available:  pdf(701.98 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Enterprise-scale storage systems, which can contain hundreds of host computers and storage devices and up to tens of thousands of disks and logical volumes, are difficult to design. The volume of choices that need to be made is massive, and many choices have unforeseen interactions. Storage system design is tedious and complicated to do by hand, usually leading to solutions that are grossly over-provisioned, substantially under-performing or, in the worst case, both. To solve the configuration ni ...

Keywords: Disk array, RAID, automatic design

16 The structure of Cedar

Daniel C. Swinehart, Polle T. Zellweger, Robert B. Hagmann

June 1985

Proceedings of the ACM SIGPLAN 85 symposium on Language issues in programming environments, Volume 20 , 18 Issue 7 , 6

Full text available:  pdf(1.79 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an overview of the Cedar programming environment, focusing primarily on its overall structure: the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. We will emphasize the extent to which the Cedar language, with runtime support, has influenced the organization, comprehensibility, and

17 Session 2D: group and organizational dynamics: Group delegation and responsibility

Timothy J. Norman, Chris Reed

July 2002

Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 1

Full text available:  pdf(208.76 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The act of delegating a task by one agent to another can be carried out by the performance of one or more communicative acts. Such acts may not only be directed to another individual, but also to a group of agents. In this paper, the semantics of imperatives are explored with reference to extant logics of agentative action, and in the context of the referent of an imperative being either an action or a state of affairs. The particular case of issuing of an imperative to a group of individuals is ...

18 Logics and security: Formally verifying information flow type systems for concurrent and thread systems

Gilles Barthe, Leonor Prensa Nieto

October 2004

Proceedings of the 2004 ACM workshop on Formal methods in security engineering

Full text available:  pdf(206.04 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Information flow type systems provide an elegant means to enforce confidentiality of programs. Using the proof assistant Isabelle/HOL, we have machine-checked a recent work of Boudol and Castellani cite BC02:tcs, which defines an information flow type system for a concurrent language with scheduling, and shows that typable programs are non-interferent. As a benefit of using a proof assistant, we are able to deal with a more general language than the one studied by Boudol and Castellani. The d ...

Keywords: concurrency, machine-checked proofs, noninterference

19 Essential language support for generic programming

Jeremy Siek, Andrew Lumsdaine

June 2005

ACM SIGPLAN Notices , Proceedings of the 2005 ACM SIGPLAN conference on Programming language design and implementation PLDI '05, Volume 40 Issue 6

Full text available:  pdf(248.53 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Concepts are an essential language feature for generic programming in the large. Concepts allow for succinct expression of constraints on type parameters of generic algorithms, enable systematic organization of problem domain abstractions, and make generic algorithms easier to use. In this paper we present the design of a type system and semantics for concepts that is suitable for non-type-inferencing languages. Our design shares much in common with the type classes of Haskell, though our ...

Keywords: C++, Haskell, generic programming, polymorphism, standard ML

20 Kernel korner: ATA over ethernet: putting hard drives on the lan

Ed L. Cashin

June 2005

Linux Journal, Volume 2005 Issue 134

Full text available:  html(23.76 KB)

Additional Information: [full citation](#), [abstract](#)

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Best 200 shown

Relevance scale ☐ ☐ ☐ ☐ ☐

21 [Numbering matters: first-order canonical forms for second-order recursive types](#)

Nadji Gauthier, François Pottier

September 2004 **ACM SIGPLAN Notices , Proceedings of the ninth ACM SIGPLAN international conference on Functional programming**, Volume 39 Issue 9

Full text available: pdf(173.08_KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We study a type system equipped with universal types and equire-cursive types, which we refer to as $F\Box$. We show that type equality may be decided in time $O(n \log n)$, an improvement over the previous known bound of $O(n^2)$. In fact, we show that two more general problems, namely entailment of type equations and type unification, may be decided in time $O(n \log n)$, a new result. To achieve this bound, we associate, with every $F\Box$

Keywords: equality, polymorphism, recursive types, unification

22 [The high performance storage system](#)

R. A. Coyne, H. Hulen, R. Watson

December 1993 **Proceedings of the 1993 ACM/IEEE conference on Supercomputing**

Full text available: pdf(1.05_MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

23 [Linear continuations](#)

Andrzej Filinski

February 1992 **Proceedings of the 19th ACM SIGPLAN-SIGACT symposium on Principles of programming languages**

Full text available: pdf(1.31_MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a functional interpretation of classical linear logic based on the concept of linear continuations. Unlike their non-linear counterparts, such continuations lead to a model of control that does not inherently impose any particular evaluation strategy. Instead, such additional structure is expressed by admitting closely controlled copying and discarding of continuations. We also emphasize the importance of classicality in obtaining computationally appealing categories ...

24 [The functional side of logic programming](#)

Massimo Marchiori

October 1995 **Proceedings of the seventh international conference on Functional programming languages and computer architecture**

Full text available: pdf(1.21_MB)

Additional Information: [full citation](#), [references](#), [index terms](#)

25 [Technical correspondence: A survey of semantic description frameworks for programming languages](#)

Yingzhou Zhang, Baowen Xu

March 2004 **ACM SIGPLAN Notices**, Volume 39 Issue 3

Full text available: pdf(1.64_MB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Formal semantic description is significant for design, reasoning and standardization of programming languages, and it plays an important part in the optimization of the compiler. However, compared to the amount of effort that has been made to the research of various semantic frameworks over more than forty years, their actual applications are definitely frustrating. This survey reviews the history of developments on semantic description frameworks for programming languages. It also illustrates ...

Keywords: axiomatic semantics, denotational semantics, formal semantics, hybrid semantics, operational

26 Type inference and semi-unification

Fritz Henglein

January 1988 **Proceedings of the 1988 ACM conference on LISP and functional programming**

Full text available:  pdf(1.27 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Milner Calculus is the typed λ -calculus underlying the type system for the programming language ML [Har86] and several other strongly typed polymorphic functional languages such as Miranda [Tur86] and SPS [Wan84]. Mycroft [Myc84] extended the problematical typing rule for recursive definitions and proved that the resulting calculus, termed Milner-Mycroft Calculus here, is sound with respect to Milner's [Mil78] semantics and that it preserves the principal typing property [DM82] of $t \dots$

27 Modelling Prolog control

Roberto Barbuti, Michael Codish, Roberto Giacobazzi, Giorgio Levi

February 1992 **Proceedings of the 19th ACM SIGPLAN-SIGACT symposium on Principles of programming languages**

Full text available:  pdf(911.04 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The goal of this paper is to construct a semantic basis for the abstract interpretation of Prolog programs. Prolog is a well-known logic programming language which applies a depth-first search strategy in order to provide a practical approximation of Horn clause logic. While pure logic programming has clean fix-point, model-theoretic and operational semantics the situation for Prolog is different. Difficulties in capturing the declarative meaning of Prolog programs have led to various semantic ...

28 The design and implementation of SOLAR, a portable library for scalable out-of-core linear algebra computations

Sivan Toledo, Fred G. Gustavson

May 1996 **Proceedings of the fourth workshop on I/O in parallel and distributed systems: part of the federated computing research conference**

Full text available:  pdf(1.63 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

29 Computer human interface: A sense of touch in online sculpting

Ian Creighton, Chris Ho-Stuart

June 2004 **Proceedings of the 2nd international conference on Computer graphics and interactive techniques in Australasia and South East Asia**

Full text available:  pdf(258.13 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


This paper describes the work-in-progress of an online multimedia tool employing the sense of touch in exploring and learning sculpting techniques to be used over the Internet. Many game applications use haptic devices as a control mechanism, yet little has been documented on the use of this controlling procedure in an educational setting. The internet based instructional device presented here has a single modeling tool accessed by a customised interface designed with widely accessible software ...

Keywords: 3D, Internet, education, haptic, multimedia

30 Transactions and synchronization in a distributed operating system

Matthew J. Weinstein, Thomas W. Page, Brian K. Livezey, Gerald J. Popek

December 1985 **ACM SIGOPS Operating Systems Review , Proceedings of the tenth ACM symposium on Operating systems principles, Volume 19 Issue 5**


Full text available:  pdf(974.32 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

31 The geometry of interaction machine

Ian Mackie

January 1995 **Proceedings of the 22nd ACM SIGPLAN-SIGACT symposium on Principles of programming languages**

Full text available:  pdf(934.46 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We investigate implementation techniques arising directly from Girard's Geometry of Interaction semantics for Linear Logic, specifically for a simple functional programming language (PCF). This gives rise to a very simple, compact, compilation schema and run-time system. We analyse various properties of this kind of computation that suggest substantial optimisations that could make this paradigm of implementation not only practical, but potentially more efficient than extant paradigms.

32 Secure calling contexts for stack inspection

Frédéric Besson, Thomas de Grenier de Latour, Thomas Jensen

Stack inspection is a mechanism for programming secure applications by which a method can obtain information from the call stack about the code that (directly or indirectly) invoked it. This mechanism plays a fundamental role in the security architecture of Java and the .NET Common Language Runtime. A central problem with stack inspection is to determine to what extent the `<i>local</i>` checks inserted into the code are sufficient to guarantee that a `<i>global</i>` ...

Keywords: constraints, language based security, linear temporal logic, stack inspection, static program analysis

33 Pilot: an operating system for a personal computer

David D. Redell, Yogen K. Dalal, Thomas R. Horsley, Hugh C. Lauer, William C. Lynch, Paul R. McJones, Hal G. Murray, Stephen C. Purcell

February 1980 **Communications of the ACM**, Volume 23 Issue 2

Full text available:  pdf(1.14 MB)

Additional Information: [full citation](#), [references](#), [citations](#)

Keywords: file, high-level language, modular programming, network, operating system, personal computer, process, system structure, virtual memory

34 A definitional approach to primitivexs recursion over higher order abstract syntax

S. J. Ambler, R. L. Crole, Alberto Momigliano

August 2003 **Proceedings of the 2003 workshop on Mechanized reasoning about languages with variable binding**

Full text available:  pdf(276.19 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

It is well known that there are problems associated with formal systems which attempt to combine higher order abstract syntax (HOAS) with principles of induction and recursion. We describe a formal system, called Bsyntax, which we have implemented in Isabelle HOL. Our contribution is to prove the existence of a combinator for primitive recursion with parameters over HOAS. The definition of the combinator is facilitated by the use of terms with *infinite* contexts. In particular, our work is ...

Keywords: λ -calculus, Isabelle HOL, higher order abstract syntax, initial algebras, primitive recursion, topos theory

35 Deciding validity in a spatial logic for trees

Cristiano Calcagno, Luca Cardelli, Andrew D. Gordon

January 2003 **ACM SIGPLAN Notices , Proceedings of the 2003 ACM SIGPLAN international workshop on Types in languages design and implementation**, Volume 38 Issue 3

Full text available:  pdf(322.34 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

(MATH) We consider a propositional spatial logic for finite trees. The logic includes $A \text{ ??? } \text{Par } B$ (tree composition), $A \text{ ??? } B$ (the implication induced by composition), and \mathbf{O} (the unit of composition). We show that the satisfaction and validity problems are equivalent, and decidable. The crux of the argument is devising a finite enumeration of trees to consider when deciding whether a spatial implication is satisfied. We introduce a sequent calculus for the lo ...

36 Generating finite state machines from abstract state machines

Wolfgang Grieskamp, Yuri Gurevich, Wolfram Schulte, Margus Veanes

July 2002 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2002 ACM SIGSOFT international symposium on Software testing and analysis**, Volume 27 Issue 4

Full text available:  pdf(330.94 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We give an algorithm that derives a finite state machine (FSM) from a given abstract state machine (ASM) specification. This allows us to integrate ASM specs with the existing tools for test case generation from FSMs. ASM specs are executable but have typically too many, often infinitely many states. We group ASM states into finitely many hyperstates which are the nodes of the FSM. The links of the FSM are induced by the ASM state transitions.

Keywords: ASM, FSM, abstract state machine, executable specification, finite state machine, test case generation

37 Call-by-value is dual to call-by-name

Philip Wadler

August 2003


The rules of classical logic may be formulated in pairs corresponding to De Morgan duals: rules about $\&$ are dual to rules about \vee . A line of work, including that of Filinski (1989), Griffin (1990), Parigot (1992), Danos, Joinet, and Schellinx (1995), Selinger (1998,2001), and Curien and Herbelin (2000), has led to the startling conclusion that call-by-value is the de Morgan dual of call-by-name. This paper presents a dual calculus that corresponds to the classical sequent calculus of Gentz ...

Keywords: Curry-Howard correspondence, De Morgan dual, lambda calculus, lambda mu calculus, logic, natural deduction, sequent calculus

38 A logical view of composition and refinement

Martin Abadi, Gordon Plotkin

January 1991 **Proceedings of the 18th ACM SIGPLAN-SIGACT symposium on Principles of programming languages**

Full text available:  pdf(973.44 KB)




Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

39 A lazy way to chart-parse with Categorical Grammars

Remo Pareschi, Mark Steedman

July 1987 **Proceedings of the 25th annual meeting on Association for Computational Linguistics**

Full text available:

 pdf(841.49 KB)  [Publisher](#)
 [Site](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

There has recently been a revival of interest in Categorical Grammars (CG) among computational linguists. The various versions noted below which extend pure CG by including operations such as functional composition have been claimed to offer simple and uniform accounts of a wide range of natural language (NL) constructions involving bounded and unbounded "movement" and coordination "reduction" in a number of languages. Such grammars have obvious advantages for computational applications, provided ...

40 A semantically-derived subset of English for hardware verification

Alexander Holt, Ewan Klein

June 1999 **Proceedings of the 37th annual meeting of the Association for Computational Linguistics on Computational Linguistics**

Full text available:  pdf(558.99 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

To verify hardware designs by model checking, circuit specifications are commonly expressed in the temporal logic CTL. Automatic conversion of English to CTL requires the definition of an appropriately restricted subset of English. We show how the limited semantic expressibility of CTL can be exploited to derive a hierarchy of subsets. Our strategy avoids potential difficulties with approaches that take existing computational semantic analyses of English as their starting point ...

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Terms used [extending logical volumes](#) [virtual volume](#)

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41 [Parsing and derivational equivalence](#)

Mark Hepple, Glyn Morrill

April 1989

Proceedings of the fourth conference on European chapter of the Association for Computational Linguistics

Full text available:

☒ pdf(633.98 KB) ☒ Publisher ☐ Site

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

It is a tacit assumption of much linguistic inquiry that all distinct derivations of a string should assign distinct meanings. But despite the tidiness of such derivational uniqueness, there seems to be no a priori reason to assume that a grammar must have this property. If a grammar exhibits derivational equivalence, whereby distinct derivations of a string assign the same meanings, naive exhaustive search for all derivations will be redundant, and quite possibly intractable. In this paper we s ...

42 [Session 8C: formalisms and logics II: Ascribing beliefs to resource bounded agents](#)

Natasha Alechina, Brian Logan

July 2002

Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 2

Full text available: ☒ pdf(137.81 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Logical approaches to reasoning about agents often rely on idealisations about belief ascription and logical omniscience which make it difficult to apply the results obtained to real agents. In this paper, we show how to ascribe beliefs and an ability to reason in an arbitrary decidable logic to an agent in a computationally grounded way. We characterise those cases in which the assumption that an agent is logically omniscient in a given logic is 'harmless' in the sense that it does not lead to ...

Keywords: formalisms and logics

43 [Improving storage system availability with D-GRAID](#)

Muthian Sivathanu, Vijayan Prabhakaran, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau

May 2005

ACM Transactions on Storage (TOS), Volume 1 Issue 2

Full text available: ☒ pdf(700.30 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present the design, implementation, and evaluation of D-GRAID, a gracefully degrading and quickly recovering RAID storage array. D-GRAID ensures that most files within the file system remain available even when an unexpectedly high number of faults occur. D-GRAID achieves high availability through aggressive replication of semantically critical data, and fault-isolated placement of logically related data. D-GRAID also recovers from failures quickly, restoring only live file system data to a h ...

Keywords: Block-based storage, Disk array, RAID, fault isolation, file systems, smart disks

44 [Verification of Multiagent Systems via Unbounded Model Checking](#)

Magdalena Kacprzak, Alessio Lomuscio, Wojciech Penczek

July 2004

Proceedings of the Third International Joint Conference on Autonomous Agents and Multiagent Systems - Volume 2

Full text available: ☒ pdf(252.23 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

We present an approach to the problem of verification of epistemic properties of multi-agent systems by means of symbolic model checking. In particular, it is shown how to extend the technique of unbounded model checking from a purely temporal setting to a temporal-epistemic one. In order to achieve this, we base our discussion on interpreted systems semantics, a popular semantics used in multi-agent systems literature. We give details of the technique and show how it can be applied to the well-k ...

45 The Vesta parallel file system

Peter F. Corbett, Dror G. Feitelson

August 1996 **ACM Transactions on Computer Systems (TOCS)**, Volume 14 Issue 3

Full text available:  pdf(649.08 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The Vesta parallel file system is designed to provide parallel file access to application programs running on multicomputers with parallel I/O subsystems. Vesta uses a new abstraction of files: a file is not a sequence of bytes, but rather it can be partitioned into multiple disjoint sequences that are accessed in parallel. The partitioning—which can also be changed dynamically—reduces the need for synchronization and coordination during the access. Some control over the layout ...

Keywords: data partitioning, parallel computing, parallel file system

46 Typed representation of objects by functions

J. Steensgaard-Madsen

January 1989 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 11 Issue 1

Full text available:  pdf(1.55 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A systematic representation of objects grouped into types by constructions similar to the composition of sets in mathematics is proposed. The representation is by lambda expressions, which supports the representation of objects from function spaces. The representation is related to a rather conventional language of type descriptions in a way that is believed to be new. Ordinary control-expressions (i.e., case- and let-expressions) are derived from the proposed representation.

47 Syntactic control of interference

John C. Reynolds

January 1978 **Proceedings of the 5th ACM SIGACT-SIGPLAN symposium on Principles of programming languages**

Full text available:  pdf(731.34 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In programming languages which permit both assignment and procedures, distinct identifiers can represent data structures which share storage or procedures with interfering side effects. In addition to being a direct source of programming errors, this phenomenon, which we call interference can impact type structure and parallelism. We show how to eliminate these difficulties by imposing syntactic restrictions, without prohibiting the kind of constructive interference which occurs with higher-order ...

48 Macros as multi-stage computations: type-safe, generative, binding macros in MacroML

Steven E. Ganz, Amr Sabry, Walid Taha

October 2001 **ACM SIGPLAN Notices , Proceedings of the sixth ACM SIGPLAN international conference on Functional programming**, Volume 36 Issue 10

Full text available:  pdf(233.27 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

With few exceptions, macros have traditionally been viewed as operations on syntax trees or even on plain strings. This view makes macros seem ad hoc, and is at odds with two desirable features of contemporary typed functional languages: static typing and static scoping. At a deeper level, there is a need for a simple, usable semantics for macros. This paper argues that these problems can be addressed by formally viewing macros as multi-stage computations. This view eliminates the need for fresh ...

49 Kernel Korner: The Bullet Points: Linux 2.4 - Part Deux

Joe Pranevich

September 2000 **Linux Journal**

Full text available:  html(19.34 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

This article should be considered an addendum to my previous "Bullet Points" article and my follow up piece on ISA PnP support in Linux 2.4 (February, 2000.)

50 A super scalar sort algorithm for RISC processors

Ramesh C. Agarwal

June 1996 **ACM SIGMOD Record , Proceedings of the 1996 ACM SIGMOD international conference on Management of data**, Volume 25 Issue 2

Full text available:  pdf(806.30 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The compare and branch sequences required in a traditional sort algorithm can not efficiently exploit multiple execution units present in currently available high performance RISC processors. This is because of the long latency of the compare instructions and the sequential algorithm used in sorting. With the increased level of integration on a chip, this trend is expected to continue. We have developed new sort algorithms which eliminate almost all the compares, provide functional parallelism w ...

51 Retrospective on DACNOS

Heterogeneity of hardware and software is a fact in most distributed computing environments. The DACNOS prototype is a network operating system that enables resource sharing in such environments. It extends the local operating systems without interfering with existing programs. It provides comprehensive system level support for distributed applications.


Keywords: heterogeneity, network file systems, portability, transparency

52 On the computational complexity of bisimulation, redux

Faron Moller, Scott A. Smolka

June 2003

Proceedings of the Paris C. Kanellakis memorial workshop on Principles of computing & knowledge: Paris C. Kanellakis memorial workshop on the occasion of his 50th birthday PCK50

Full text available:  pdf(96.26 KB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

53 Down with Emacs Lisp: dynamic scope analysis

Matthias Neubauer, Michael Sperber

October 2001

ACM SIGPLAN Notices , Proceedings of the sixth ACM SIGPLAN international conference on Functional programming, Volume 36 Issue 10

Full text available:  pdf(216.48 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

It is possible to translate code written in Emacs Lisp or another Lisp dialect which uses dynamic scoping to a more modern programming language with lexical scoping while largely preserving structure and readability of the code. The biggest obstacle to such an idiomatic translation from Emacs Lisp is the translation of dynamic binding into suitable instances of lexical binding: Many binding constructs in real programs in fact exhibit identical behavior under both dynamic and lexical binding. An ...

54 Application system: Direct haptic rendering of isosurface by intermediate representation

Kwong-Wai Chen, Pheng-Ann Heng, Hanqiu Sun

October 2000

Proceedings of the ACM symposium on Virtual reality software and technology

Full text available:  pdf(1.52 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

With the development of volume visualization methods, we can easily extract meaningful information from volumetric data using interactive graphics and imaging. Haptic interaction of volumetric data adds a new modality to volume visualization that has an advantage in presenting complex attributes of local region. However, the benefits of haptic rendering of volumetric data have only been recognized recently. Most traditional haptic rendering methods are developed to compute realistic interaction ...

Keywords: Force Feedback, Haptic Rendering, Virtual Reality, Volume Visualization

55 A completeness technique for d-axiomatizable semantics

Francine Berman

April 1979

Proceedings of the eleventh annual ACM symposium on Theory of computing

Full text available:  pdf(422.25 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


In this paper, we show that by dropping the restrictions on interpretations of arbitrary programs and requiring only that very natural deductive systems are sound, we get classes of semantics which give good representations of program behavior and are more well-suited for applications involving an axiomatic approach (for example program verification). In addition, by tying the restrictions on the behavior of arbitrary programs or specified axiom schema, we get both a powerful formal tool an ...

56 Combinatory foundation of functional programming

Corrado Böhm

August 1982

Proceedings of the 1982 ACM symposium on LISP and functional programming

Full text available:  pdf(480.38 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A proposal is described for embedding FP and a part of FFP into a system C(IN)V of Combinatory Logic generated by the 6-tuple of combinators (A,B,C*,O,L,D) under the operation of application. At the same time C(IN)V is viewed as an algebraic extension of elementary arithmetic, including addition multiplication and exponentiation, leading to a non commutative semi-ring w ...

57 Ext3cow: a time-shifting file system for regulatory compliance

Zachary Peterson, Randal Burns

May 2005

ACM Transactions on Storage (TOS), Volume 1 Issue 2

The ext3cow file system, built on the popular ext3 file system, provides an open-source file versioning and snapshot platform for compliance with the versioning and auditability requirements of recent electronic record retention legislation. Ext3cow provides a *time-shifting* interface that permits a real-time and continuous view of data in the past. Time-shifting does not pollute the file system namespace nor require snapshots to be mounted as a separate file system. Further, ext3cow is i ...

Keywords: Versioning file systems, copy-on-write

58 [Syntax: Free-ordered CUG on Chemical Abstract Machine](#)

Satoshi Tojo

August 1994

Proceedings of the 15th conference on Computational linguistics - Volume 2

Full text available:  pdf(303.60 KB)Additional Information: [full citation](#), [abstract](#), [references](#)

We propose a paradigm for concurrent natural language generation. In order to represent grammar rules distributively, we adopt categorial unification grammar (CUG) where each category owns its functional type. We augment typed lambda calculus with several new combinators, to make the order of λ -conversions free for partial / local processing. The concurrent calculus is modeled with *Chemical Abstract Machine*. We show an example of a Japanese *causative* auxiliary verb that requ ...

59 [A threshold selection language](#)

Barry A. Wittman, Peter Zilahy Ingerman

January 1967

Proceedings of the 1967 22nd national conference

Full text available:  pdf(481.23 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper is concerned with a technique which, unlike Boolean-based methods, allows the selecting function to be specified in an intuitive manner, regardless of the complexity of the criteria, where Boolean statements might become quite awkward and lose all but their formal meaning. In order to describe this technique concisely, we find it convenient to introduce a modest amount of formalism to give our description a solid grounding. This process has begun above and will be comp ...

60 [Equations as a uniform framework for partial evaluation and abstract interpretation](#)

J. Field, J. Heering, T. B. Dinesh

September 1998

ACM Computing Surveys (CSUR)

Full text available:  pdf(172.57 KB)Additional Information: [full citation](#), [references](#), [index terms](#)

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1 [The HP AutoRAID hierarchical storage system](#)

John Wilkes, Richard Golding, Carl Staelin, Tim Sullivan

February 1996 **ACM Transactions on Computer Systems (TOCS)**, Volume 14 Issue 1

Full text available: pdf(1.82 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Configuring redundant disk arrays is a black art. To configure an array properly, a system administrator must understand the details of both the array and the workload it will support. Incorrect understanding of either, or changes in the workload over time, can lead to poor performance. We present a solution to this problem: a two-level storage hierarchy implemented inside a single disk-array controller. In the upper level of this hierarchy, two copies of active data are stored to provide f ...

Keywords: RAID, disk array, storage hierarchy

2 [Learnability of a subclass of extended pattern languages](#)

Andrew R. Mitchell

July 1998 **Proceedings of the eleventh annual conference on Computational learning theory**

Full text available: pdf(1.05 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

3 [Contributed papers: The donkey strikes back: extending the dynamic interpretation \"constructively\"](#)

Tim Fernando

April 1993 **Proceedings of the sixth conference on European chapter of the Association for Computational Linguistics**

Full text available:

pdf(819.83 KB) Publisher Site

Additional Information: [full citation](#), [abstract](#), [references](#)

The dynamic interpretation of a formula as a binary relation (inducing transitions) on states is extended by alternative treatments of implication, universal quantification, negation and disjunction that are more \"dynamic\" (in a precise sense) than the usual reductions to tests from quantified dynamic logic (which, nonetheless, can be recovered from the new connectives). An analysis of the \"donkey\" sentence followed by the assertion \"It will kick back\" is provided.

4 [The semantic foundations of concurrent constraint programming](#)

Vijay A. Saraswat, Martin Rinard, Prakash Panangaden

January 1991 **Proceedings of the 18th ACM SIGPLAN-SIGACT symposium on Principles of programming languages**

Full text available: pdf(2.33 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

5 [An epistemic logic of situations: extended abstract](#)

Paul F. Syverson

March 1994 **Proceedings of the 5th conference on Theoretical aspects of reasoning about knowledge**

Full text available: pdf(992.69 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

In this paper we present a first order epistemic logic that incorporates the essentially finite character of what is actually known by any knower. Our logic and language allows us to represent familiarity with individuals including individual situations. It is also a logic of limited awareness in the manner of [FH88]. It is adequate for the syntactic characterization of the shared-situation account of common knowledge [Bar89]. Finally, it is sound and complete with respect to the presented se ...

6 High performance file system for supercomputing environment

H. Nishino, S. Naka, K. Ikumi, W. Leslie

August 1989

Proceedings of the 1989 ACM/IEEE conference on Supercomputing

Full text available:  pdf(915.21 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

SUPER-UX is a high performance UNIX operating system for NEC SX-3/SX-X supercomputer and has many enhanced facilities to make available the maximum SX-3/SX-X computing power (peak speed of 22GFLOPS) to users. This paper presents the SUPER-UX file system, a strong point of SUPER-UX, which is based on the standard UNIX file system to satisfy scientific computing environment requirements for I/O performance and facilities.

7 NEXP TIME-complete description logics with concrete domains

Carsten Lutz

October 2004

ACM Transactions on Computational Logic (TOCL), Volume 5 Issue 4

Full text available:  pdf(477.23 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Concrete domains are an extension of Description Logics (DLs) that allow one to integrate reasoning about conceptual knowledge with reasoning about "concrete qualities" of real-world entities such as their sizes, weights, and durations. In this article, we are concerned with the complexity of Description Logics providing for concrete domains: starting from the complexity result established in Lutz [2002b], which states that reasoning with the basic propositionally closed DL with concrete domains ...

Keywords: Computational complexity, NExpTime-completeness, concrete domains, description logic, domino problem, post correspondence problem

8 A structural view of the Cedar programming environment

Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann

August 1986

ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 8 Issue 4

Full text available:  pdf(6.32 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


This paper presents an overview of the Cedar programming environment, focusing on its overall structure—that is, the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers whose activities include experimental programming and the development of prototype software systems for a high-performance personal computer. T ...

9 Verifying CPS transformations in Isabelle/HOL

Yasuhiko Minamide, Koji Okuma

August 2003

Proceedings of the 2003 workshop on Mechanized reasoning about languages with variable binding

Full text available:  pdf(171.30 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We have verified several versions of the CPS transformation in Isabelle/HOL. In our verification we adopted first-order abstract syntax with variable names so that the formalization is close to that of hand-written proofs and compilers. To simplify treatment of fresh variables introduced by the transformation, we introduced abstract syntax parameterized with the type of variables. We also found that the standard formalization of α -equivalence was cumbersome for theorem provers and reformu ...

Keywords: correctness proofs, program transformation, theorem proving

10 Exponential lower bounds for the pigeonhole principle

Paul Beame, Russell Impagliazzo, Jan Krajíček, Toniann Pitassi, Pavel Pudlák, Alan Woods

July 1992

Proceedings of the twenty-fourth annual ACM symposium on Theory of computing

Full text available:  pdf(1.81 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

11 Interaction: Real-time haptic sculpting in virtual volume space

Hui Chen, Hanqiu Sun

November 2002

Proceedings of the ACM symposium on Virtual reality software and technology

Full text available:  pdf(523.69 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Virtual sculpture is a modeling technique for computer graphics based on the notion of sculpting a solid material with tools. Currently, most interactive sculpture is mainly focused on vision-based sensory channel. With visual feedback alone virtual sculpture cannot simulate the realistic sculpting operations in the physical world. The sense of touch, in combination with our kinesthetic sense, is capable of adding a new modality to virtual sculpture, especially in presenting complex geometry & m ...

12 Coordination in MAS: Distribution of goals addressed to a group of agents

Laurence Cholvy, Christophe Garion

July 2003

Proceedings of the second international joint conference on Autonomous agents and multiagent systems

Full text available:  pdf(233.80 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The problem investigated in this paper is the distribution of goals addressed to a group of rational agents. Those agents are characterized by their ability (i.e. what they can do), their knowledge about the world and their commitments. The goals of the group are represented by conditional preferences. In order to deduce the actual goals of the group, we determine its ability using each agent's ability and we suppose that the agents share a common knowledge about the world. The individual goals o ...

Keywords: goal selection, modal logic, multiagent systems, qualitative decision theory, theories of rational agency

13 FAB: building distributed enterprise disk arrays from commodity components

Yasushi Saito, Svend Frølund, Alistair Veitch, Arif Merchant, Susan Spence

October 2004

Proceedings of the 11th international conference on Architectural support for programming languages and operating systems, Volume 32 , 38 , 39 Issue 5 , 5 , 11

Full text available:  pdf(671.67 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


This paper describes the design, implementation, and evaluation of a Federated Array of Bricks (FAB), a distributed disk array that provides the reliability of traditional enterprise arrays with lower cost and better scalability. FAB is built from a collection of *bricks*, small storage appliances containing commodity disks, CPU, NVRAM, and network interface cards. FAB deploys a new majority-voting-based algorithm to replicate or erasure-code logical blocks across bricks and a reconfigurati ...

Keywords: consensus, disk array, erasure coding, replication, storage, voting

14 Book review: Semantic Foundations of Logic Volume 1: Propositional Logics by Richard L. Epstein
With assistance and collaboration of Walter A. Carnielli Itala, M. L. D'Ottaviano, Stanislaw Krejewski,
Roger D. Maddux (Kluwer Academic Publishers, 1990)

Walt Truszkowski

February 1991 **ACM SIGART Bulletin**, Volume 2 Issue 2

Full text available:  pdf(370.44 KB)

Additional Information: [full citation](#), [abstract](#)

This is not your typical book on logic. The novel tone of this book is established by the author's desire for unity among the various logics which have been introduced to date. The basic questions addressed by this book are: "If logic is objective how come there are so many logics? Is there one right logic, or many right ones? Is there some underlying unity that connects them?" [Preface] In answering these questions it becomes apparent that a major pre-occupation of the author lies with understa ...

15 Minerva: An automated resource provisioning tool for large-scale storage systems

Guillermo A. Alvarez, Elizabeth Borowsky, Susie Go, Theodore H. Romer, Ralph Becker-Szendy, Richard Golding, Arif Merchant, Mirjana Spasojevic, Alistair Veitch, John Wilkes

November 2001 **ACM Transactions on Computer Systems (TOCS)**, Volume 19 Issue 4

Full text available:  pdf(701.98 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Enterprise-scale storage systems, which can contain hundreds of host computers and storage devices and up to tens of thousands of disks and logical volumes, are difficult to design. The volume of choices that need to be made is massive, and many choices have unforeseen interactions. Storage system design is tedious and complicated to do by hand, usually leading to solutions that are grossly over-provisioned, substantially under-performing or, in the worst case, both. To solve the configuration ni ...


Keywords: Disk array, RAID, automatic design

16 The structure of Cedar

Daniel C. Swinehart, Polle T. Zellweger, Robert B. Hagmann

June 1985

Proceedings of the ACM SIGPLAN 85 symposium on Language issues in programming environments, Volume 20 , 18 Issue 7 , 6

Full text available:  pdf(1.79 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an overview of the Cedar programming environment, focusing primarily on its overall structure: the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. We will emphasize the extent to which the Cedar language, with runtime support, has influenced the organization, comprehensibility, and

17 Session 2D: group and organizational dynamics: Group delegation and responsibility

Timothy J. Norman, Chris Reed
July 2002

Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 1

Full text available:  pdf(208.76 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The act of delegating a task by one agent to another can be carried out by the performance of one or more communicative acts. Such acts may not only be directed to another individual, but also to a group of agents. In this paper, the semantics of imperatives are explored with reference to extant logics of agentative action, and in the context of the referent of an imperative being either an action or a state of affairs. The particular case of issuing of an imperative to a group of individuals is ...

18 Logics and security: Formally verifying information flow type systems for concurrent and thread systems

Gilles Barthe, Leonor Prensa Nieto
October 2004

Proceedings of the 2004 ACM workshop on Formal methods in security engineering

Full text available:  pdf(206.04 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Information flow type systems provide an elegant means to enforce confidentiality of programs. Using the proof assistant Isabelle/HOL, we have machine-checked a recent work of Boudol and Castellani cite BC02:tcs, which defines an information flow type system for a concurrent language with scheduling, and shows that typable programs are non-interferent. As a benefit of using a proof assistant, we are able to deal with a more general language than the one studied by Boudol and Castellani. The d ...

Keywords: concurrency, machine-checked proofs, noninterference

19 Essential language support for generic programming

Jeremy Siek, Andrew Lumsdaine
June 2005

ACM SIGPLAN Notices , Proceedings of the 2005 ACM SIGPLAN conference on Programming language design and implementation PLDI '05, Volume 40 Issue 6

Full text available:  pdf(248.53 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Concepts are an essential language feature for generic programming in the large. Concepts allow for succinct expression of constraints on type parameters of generic algorithms, enable systematic organization of problem domain abstractions, and make generic algorithms easier to use. In this paper we present the design of a type system and semantics for concepts that is suitable for non-type-inferencing languages. Our design shares much in common with the type classes of Haskell, though our ...

Keywords: C++, Haskell, generic programming, polymorphism, standard ML

20 Caching & file systems: Empirical evaluation of multi-level buffer cache collaboration for storage systems

Zhifeng Chen, Yan Zhang, Yuanyuan Zhou, Heidi Scott, Berni Schiefer
June 2005

Proceedings of the 2005 ACM SIGMETRICS international conference on Measurement and modeling of computer systems

Full text available:  pdf(379.25 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

To bridge the increasing processor-disk performance gap, buffer caches are used in both storage clients (e.g. database systems) and storage servers to reduce the number of slow disk accesses. These buffer caches need to be managed effectively to deliver the performance commensurate to the aggregate buffer cache size. To address this problem, two paradigms have been proposed recently to *collaboratively* manage these buffer caches together: the **hierarchy-aware caching** maintains ...

Keywords: collaborative caching, database, file system, storage system

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Terms used **extending logical volumes virtual volume storage virtualization**

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21 [Kernel korner: ATA over ethernet: putting hard drives on the lan](#)

Ed L. Cashin

June 2005 **Linux Journal**, Volume 2005 Issue 134

Full text available: [html\(23.76 KB\)](#)

Additional Information: [full citation](#), [abstract](#)

i

22 [Numbering matters: first-order canonical forms for second-order recursive types](#)

Nadji Gauthier, François Pottier

September 2004 **ACM SIGPLAN Notices , Proceedings of the ninth ACM SIGPLAN international conference on Functional programming**, Volume 39 Issue 9

Full text available: [pdf\(173.08 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We study a type system equipped with universal types and equire-cursive types, which we refer to as F_{\square} . We show that type equality may be decided in time $O(n \log n)$, an improvement over the previous known bound of $O(n^2)$. In fact, we show that two more general problems, namely entailment of type equations and type unification, may be decided in time $O(n \log n)$, a new result. To achieve this bound, we associate, with every F_{\square}

Keywords: equality, polymorphism, recursive types, unification

23 [The high performance storage system](#)

R. A. Coyne, H. Hulen, R. Watson

December 1993 **Proceedings of the 1993 ACM/IEEE conference on Supercomputing**

Full text available: [pdf\(1.05 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

24 [Linear continuations](#)

Andrzej Filinski

February 1992 **Proceedings of the 19th ACM SIGPLAN-SIGACT symposium on Principles of programming languages**

Full text available: [pdf\(1.31 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a functional interpretation of classical linear logic based on the concept of linear continuations. Unlike their non-linear counterparts, such continuations lead to a model of control that does not inherently impose any particular evaluation strategy. Instead, such additional structure is expressed by admitting closely controlled copying and discarding of continuations. We also emphasize the importance of classicality in obtaining computationally appealing categories ...

25 [The functional side of logic programming](#)

Massimo Marchiori

October 1995 **Proceedings of the seventh international conference on Functional programming languages and computer architecture**

Full text available: [pdf\(1.21 MB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

26 [Technical correspondence: A survey of semantic description frameworks for programming languages](#)

Yingzhou Zhang, Baowen Xu

March 2004 **ACM SIGPLAN Notices**, Volume 39 Issue 3

Full text available:

Additional Information:

Formal semantic description is significant for design, reasoning and standardization of programming languages, and it plays an important part in the optimization of the compiler. However, compared to the amount of effort that has been made to the research of various semantic frameworks over more than forty years, their actual applications are definitely frustrating. This survey reviews the history of developments on semantic description frame-works for programming languages. It also illustrates ...

Keywords: axiomatic semantics, denotational semantics, formal semantics, hybrid semantics, operational semantics, semantic description frameworks

27 [Type inference and semi-unification](#)

Fritz Henglein

January 1988

Proceedings of the 1988 ACM conference on LISP and functional programming

Full text available:  pdf(1.27 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Milner Calculus is the typed λ -calculus underlying the type system for the programming language ML [Har86] and several other strongly typed polymorphic functional languages such as Miranda [Tur86] and SPS [Wan84]. Mycroft [Myc84] extended the problematical typing rule for recursive definitions and proved that the resulting calculus, termed Milner-Mycroft Calculus here, is sound with respect to Milner's [Mil78] semantics and that it preserves the principal typing property [DM82] of t ...

28 [Modelling Prolog control](#)

Roberto Barbuti, Michael Codish, Roberto Giacobazzi, Giorgio Levi

February 1992

Proceedings of the 19th ACM SIGPLAN-SIGACT symposium on Principles of programming languages

Full text available:  pdf(911.04 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The goal of this paper is to construct a semantic basis for the abstract interpretation of Prolog programs. Prolog is a well-known logic programming language which applies a depth-first search strategy in order to provide a practical approximation of Horn clause logic. While pure logic programming has clean fix-point, model-theoretic and operational semantics the situation for Prolog is different. Difficulties in capturing the declarative meaning of Prolog programs have led to various semant ...

29 [The design and implementation of SOLAR, a portable library for scalable out-of-core linear algebra computations](#)

Sivan Toledo, Fred G. Gustavson

May 1996

Proceedings of the fourth workshop on I/O in parallel and distributed systems: part of the federated computing research conference

Full text available:  pdf(1.63 MB)


Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

30 [Computer human interface: A sense of touch in online sculpting](#)

Ian Creighton, Chris Ho-Stuart

June 2004

Proceedings of the 2nd international conference on Computer graphics and interactive techniques in Australasia and Southe East Asia

Full text available:  pdf(258.13 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes the work-in-progress of an online multimedia tool employing the sense of touch in exploring and learning sculpting techniques to be used over the Internet. Many game applications use haptic devices as a control mechanism, yet little has been documented on the use of this controlling procedure in an educational setting. The internet based instructional device presented here has a single modeling tool accessed by a customised interface designed with widely accessible software ...


Keywords: 3D, Internet, education, haptic, multimedia

31 [Transactions and synchronization in a distributed operating system](#)

Matthew J. Weinstein, Thomas W. Page, Brian K. Livezey, Gerald J. Popek

December 1985

ACM SIGOPS Operating Systems Review , Proceedings of the tenth ACM symposium on Operating systems principles, Volume 19 Issue 5

Full text available:  pdf(974.32 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

32 [The geometry of interaction machine](#)

Ian Mackie

January 1995

Proceedings of the 22nd ACM SIGPLAN-SIGACT symposium on Principles of programming languages

Full text available:

Additional Information:

We investigate implementation techniques arising directly from Girard's Geometry of Interaction semantics for Linear Logic, specifically for a simple functional programming language (PCF). This gives rise to a very simple, compact, compilation schema and run-time system. We analyse various properties of this kind of computation that suggest substantial optimisations that could make this paradigm of implementation not only practical, but potentially more efficient than extant paradigms.

33 A definitional approach to primitivexs recursion over higher order abstract syntax

S. J. Ambler, R. L. Crole, Alberto Momigliano

August 2003 **Proceedings of the 2003 workshop on Mechanized reasoning about languages with variable binding**

Full text available: pdf(276.19 KB)

Additional Information: full citation, abstract, references, citations, index terms

It is well known that there are problems associated with formal systems which attempt to combine higher order abstract syntax (HOAS) with principles of induction and recursion. We describe a formal system, called Bsyntax, which we have implemented in Isabelle HOL. Our contribution is to prove the existence of a combinator for primitive recursion with parameters over HOAS. The definition of the combinator is facilitated by the use of terms with *infinite* contexts. In particular, our work is ...

Keywords: λ -calculus, Isabelle HOL, higher order abstract syntax, initial algebras, primitive recursion, topos theory

34 Secure calling contexts for stack inspection

Frédéric Besson, Thomas de Grenier de Latour, Thomas Jensen

October 2002 **Proceedings of the 4th ACM SIGPLAN international conference on Principles and practice of declarative programming**

Full text available: pdf(270.58 KB)

Additional Information: full citation, abstract, references, citations

Stack inspection is a mechanism for programming secure applications by which a method can obtain information from the call stack about the code that (directly or indirectly) invoked it. This mechanism plays a fundamental role in the security architecture of Java and the .NET Common Language Runtime. A central problem with stack inspection is to determine to what extent the `<i>local</i>` checks inserted into the code are sufficient to guarantee that a `<i>global</i>` ...

Keywords: constraints, language based security, linear temporal logic, stack inspection, static program analysis

35 Pilot: an operating system for a personal computer

David D. Redell, Yogen K. Dalal, Thomas R. Horsley, Hugh C. Lauer, William C. Lynch, Paul R. McJones, Hal G. Murray, Stephen C. Purcell

February 1980 **Communications of the ACM**, Volume 23 Issue 2

Full text available: pdf(1.14 MB)

Additional Information: full citation, references, citations

Keywords: file, high-level language, modular programming, network, operating system, personal computer, process, system structure, virtual memory

36 Deciding validity in a spatial logic for trees

Cristiano Calcagno, Luca Cardelli, Andrew D. Gordon

January 2003 **ACM SIGPLAN Notices , Proceedings of the 2003 ACM SIGPLAN international workshop on Types in languages design and implementation**, Volume 38 Issue 3

Full text available: pdf(322.34 KB)

Additional Information: full citation, abstract, references, citations, index terms

(MATH) We consider a propositional spatial logic for finite trees. The logic includes $A \text{ ??? } B$ (tree composition), $A \text{ ??? } B$ (the implication induced by composition), and \mathbf{O} (the unit of composition). We show that the satisfaction and validity problems are equivalent, and decidable. The crux of the argument is devising a finite enumeration of trees to consider when deciding whether a spatial implication is satisfied. We introduce a sequent calculus for the logic ...

37 Generating finite state machines from abstract state machines

Wolfgang Grieskamp, Yuri Gurevich, Wolfram Schulte, Margus Veanes

July 2002 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2002 ACM SIGSOFT international symposium on Software testing and analysis**, Volume 27 Issue 4

Full text available: pdf(330.94 KB)

Additional Information: full citation, abstract, references, citations

We give an algorithm that derives a finite state machine (FSM) from a given abstract state machine (ASM) specification. This allows us to integrate ASM specs with the existing tools for test case generation from FSMs. ASM specs are executable but have typically too many, often infinitely many states. We group ASM

states into finitely many hyperstates which are the nodes of the FSM. The links of the FSM are induced by the ASM state transitions.

Keywords: ASM, FSM, abstract state machine, executable specification, finite state machine, test case generation

38 [Call-by-value is dual to call-by-name](#)

Philip Wadler

August 2003 **ACM SIGPLAN Notices , Proceedings of the eighth ACM SIGPLAN international conference on Functional programming, Volume 38 Issue 9**

Full text available:  pdf(200.81 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The rules of classical logic may be formulated in pairs corresponding to De Morgan duals: rules about $\&$ are dual to rules about \vee . A line of work, including that of Filinski (1989), Griffin (1990), Parigot (1992), Danos, Joinet, and Schellinx (1995), Selinger (1998,2001), and Curien and Herbelin (2000), has led to the startling conclusion that call-by-value is the de Morgan dual of call-by-name. This paper presents a dual calculus that corresponds to the classical sequent calculus of Gentz ...

Keywords: Curry-Howard correspondence, De Morgan dual, lambda calculus, lambda mu calculus, logic, natural deduction, sequent calculus

39 [A logical view of composition and refinement](#)

Martin Abadi, Gordon Plotkin

January 1991 **Proceedings of the 18th ACM SIGPLAN-SIGACT symposium on Principles of programming languages**

Full text available:  pdf(973.44 KB)


Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

40 [A lazy way to chart-parse with Categorical Grammars](#)

Remo Pareschi, Mark Steedman

July 1987 **Proceedings of the 25th annual meeting on Association for Computational Linguistics**

Full text available:

 pdf(841.49 KB)



[Publisher](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

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There has recently been a revival of interest in Categorical Grammars (CG) among computational linguists. The various versions noted below which extend pure CG by including operations such as functional composition have been claimed to offer simple and uniform accounts of a wide range of natural language (NL) constructions involving bounded and unbounded "movement" and coordination "reduction" in a number of languages. Such grammars have obvious advantages for computational applications, provided ...

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Terms used [extending logical volumes](#) [virtual volume](#) [storage virtualization](#)

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41 [A semantically-derived subset of English for hardware verification](#)

Alexander Holt, Ewan Klein

June 1999

Proceedings of the 37th annual meeting of the Association for Computational Linguistics on Computational Linguistics

Full text available:  pdf(558.99 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)


To verify hardware designs by model checking, circuit specifications are commonly expressed in the temporal logic CTL. Automatic conversion of English to CTL requires the definition of an appropriately restricted subset of English. We show how the limited semantic expressibility of CTL can be exploited to derive a *<i>hierarchy</i>* of subsets. Our strategy avoids potential difficulties with approaches that take existing computational semantic analyses of English as their starting point ...

42 [Interposed proportional sharing for a storage service utility](#)

Wei Jin, Jeffrey S. Chase, Jasleen Kaur

June 2004

ACM SIGMETRICS Performance Evaluation Review , Proceedings of the joint international conference on Measurement and modeling of computer systems, Volume 32 Issue 1

Full text available:  pdf(339.02 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper develops and evaluates new share-based scheduling algorithms for differentiated service quality in network services, such as network storage servers. This form of resource control makes it possible to share a server among multiple request flows with probabilistic assurance that each flow receives a specified minimum share of a server's capacity to serve requests. This assurance is important for safe outsourcing of services to shared utilities such as Storage Service Providers. Our appr ...

Keywords: differentiated service, fair sharing, multiprocessor scheduling, performance isolation, proportional sharing, quality of service, storage services, utility computing, weighted fair queuing



43 [Parsing and derivational equivalence](#)

Mark Hepple, Glyn Morrill

April 1989

Proceedings of the fourth conference on European chapter of the Association for Computational Linguistics

Full text available:

 pdf(633.98 KB)  [Publisher](#) [Site](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)


It is a tacit assumption of much linguistic inquiry that all distinct derivations of a string should assign distinct meanings. But despite the tidiness of such derivational uniqueness, there seems to be no a priori reason to assume that a grammar must have this property. If a grammar exhibits derivational equivalence, whereby distinct derivations of a string assign the same meanings, naive exhaustive search for all derivations will be redundant, and quite possibly intractable. In this paper we s ...

44 [Session 8C: formalisms and logics II: Ascribing beliefs to resource bounded agents](#)

Natasha Alechina, Brian Logan

July 2002

Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 2

Full text available:  pdf(137.81 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Logical approaches to reasoning about agents often rely on idealisations about belief ascription and logical omniscience which make it difficult to apply the results obtained to real agents. In this paper, we show how to ascribe beliefs and an ability to reason in an arbitrary decidable logic to an agent in a computationally grounded way. We characterise those cases in which the assumption that an agent is logically omniscient in a given logic is 'harmless' in the sense that it does not lead to ...

Keywords: formalisms and logics

45 Improving storage system availability with D-GRAID

Muthian Sivathanu, Vijayan Prabhakaran, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau
May 2005 **ACM Transactions on Storage (TOS)**, Volume 1 Issue 2

Full text available:  pdf(700.30 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present the design, implementation, and evaluation of D-GRAID, a gracefully degrading and quickly recovering RAID storage array. D-GRAID ensures that most files within the file system remain available even when an unexpectedly high number of faults occur. D-GRAID achieves high availability through aggressive replication of semantically critical data, and fault-isolated placement of logically related data. D-GRAID also recovers from failures quickly, restoring only live file system data to a h ...

Keywords: Block-based storage, Disk array, RAID, fault isolation, file systems, smart disks

46 Verification of Multiagent Systems via Unbounded Model Checking

Magdalena Kacprzak, Alessio Lomuscio, Wojciech Penczek
July 2004 **Proceedings of the Third International Joint Conference on Autonomous Agents and Multiagent Systems - Volume 2**

Full text available:  pdf(252.23 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

We present an approach to the problem of verification of epistemic properties of multi-agent systems by means of symbolic model checking. In particular, it is shown how to extend the technique of unbounded model checking from a purely temporal setting to a temporal-epistemic one. In order to achieve this, we base our discussion on interpreted systems semantics, a popular semantics used in multi-agent systems literature. We give details of the technique and show how it can be applied to the well-k ...

47 The Vesta parallel file system

Peter F. Corbett, Dror G. Feitelson
August 1996 **ACM Transactions on Computer Systems (TOCS)**, Volume 14 Issue 3

Full text available:  pdf(649.08 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The Vesta parallel file system is designed to provide parallel file access to application programs running on multicomputers with parallel I/O subsystems. Vesta uses a new abstraction of files: a file is not a sequence of bytes, but rather it can be partitioned into multiple disjoint sequences that are accessed in parallel. The partitioning—which can also be changed dynamically—reduces the need for synchronization and coordination during the access. Some control over the layout ...

Keywords: data partitioning, parallel computing, parallel file system

48 Typed representation of objects by functions

J. Steensgaard-Madsen
January 1989 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 11 Issue 1


Full text available:  pdf(1.55 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A systematic representation of objects grouped into types by constructions similar to the composition of sets in mathematics is proposed. The representation is by lambda expressions, which supports the representation of objects from function spaces. The representation is related to a rather conventional language of type descriptions in a way that is believed to be new. Ordinary control-expressions (i.e., case- and let-expressions) are derived from the proposed representation.

49 Syntactic control of interference

John C. Reynolds
January 1978 **Proceedings of the 5th ACM SIGACT-SIGPLAN symposium on Principles of programming languages**

Full text available:  pdf(731.34 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In programming languages which permit both assignment and procedures, distinct identifiers can represent data structures which share storage or procedures with interfering side effects. In addition to being a direct source of programming errors, this phenomenon, which we call interference can impact type structure and parallelism. We show how to eliminate these difficulties by imposing syntactic restrictions, without prohibiting the kind of constructive interference which occurs with higher-order ...

50 Macros as multi-stage computations: type-safe, generative, binding macros in MacroML

Steven E. Ganz, Amr Sabry, Walid Taha
October 2001 **ACM SIGPLAN Notices , Proceedings of the sixth ACM SIGPLAN international conference on Functional programming**, Volume 36 Issue 10

Full text available:  pdf(233.27 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

With few exceptions, macros have traditionally been viewed as operations on syntax trees or even on plain strings. This view makes macros seem ad hoc, and is at odds with two desirable features of contemporary typed functional languages: static typing and static scoping. At a deeper level, there is a need for a simple, usable semantics for macros. This paper argues that these problems can be addressed by formally viewing macros as multi-stage computations. This view eliminates the need for fresh ...

51 Kernel Korner: The Bullet Points: Linux 2.4 - Part Deux

Joe Pranevich
September 2000 **Linux Journal**

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This article should be considered an addendum to my previous "Bullet Points" article and my follow up piece on ISA PnP support in Linux 2.4 (February, 2000.)

52 Features: Storage Systems: Not Just a Bunch of Disks Anymore


June 2003 **Queue**, Volume 1 Issue 4

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53 A super scalar sort algorithm for RISC processors

Ramesh C. Agarwal
June 1996 **ACM SIGMOD Record , Proceedings of the 1996 ACM SIGMOD international conference on Management of data**, Volume 25 Issue 2

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The compare and branch sequences required in a traditional sort algorithm can not efficiently exploit multiple execution units present in currently available high performance RISC processors. This is because of the long latency of the compare instructions and the sequential algorithm used in sorting. With the increased level of integration on a chip, this trend is expected to continue. We have developed new sort algorithms which eliminate almost all the compares, provide functional parallelism w ...

54 Retrospective on DACNOS

Kurt Geihs, Ulf Hollberg
April 1990 **Communications of the ACM**, Volume 33 Issue 4

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Heterogeneity of hardware and software is a fact in most distributed computing environments. The DACNOS prototype is a network operating system that enables resource sharing in such environments. It extends the local operating systems without interfering with existing programs. It provides comprehensive system level support for distributed applications.

Keywords: heterogeneity, network file systems, portability, transparency

55 On the computational complexity of bisimulation, redux


Faron Moller, Scott A. Smolka
June 2003 **Proceedings of the Paris C. Kanellakis memorial workshop on Principles of computing & knowledge: Paris C. Kanellakis memorial workshop on the occasion of his 50th birthday PCK50**

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56 Down with Emacs Lisp: dynamic scope analysis

Matthias Neubauer, Michael Sperber
October 2001 **ACM SIGPLAN Notices , Proceedings of the sixth ACM SIGPLAN international conference on Functional programming**, Volume 36 Issue 10

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It is possible to translate code written in Emacs Lisp or another Lisp dialect which uses dynamic scoping to a more modern programming language with lexical scoping while largely preserving structure and readability of the code. The biggest obstacle to such an idiomatic translation from Emacs Lisp is the translation of dynamic binding into suitable instances of lexical binding: Many binding constructs in real programs in fact exhibit identical behavior under both dynamic and lexical binding. An ...

57 Application system: Direct haptic rendering of isosurface by intermediate representation

Kwong-Wai Chen, Pheng-Ann Heng, Hanqiu Sun
October 2000 **Proceedings of the ACM symposium on Virtual reality software and technology**

With the development of volume visualization methods, we can easily extract meaningful information from volumetric data using interactive graphics and imaging. Haptic interaction of volumetric data adds a new modality to volume visualization that has an advantage in presenting complex attributes of local region. However, the benefits of haptic rendering of volumetric data have only been recognized recently. Most traditional haptic rendering methods are developed to compute realistic interaction ...

Keywords: Force Feedback, Haptic Rendering, Virtual Reality, Volume Visualization

58 [A completeness technique for d-axiomatizable semantics](#)

Francine Berman

April 1979

Proceedings of the eleventh annual ACM symposium on Theory of computing

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In this paper, we show that by dropping the restrictions on interpretations of arbitrary programs and requiring only that very natural deductive systems are sound, we get classes of semantics which give good representations of program behavior and are more well-suited for applications involving an axiomatic approach (for example program verification). In addition, by tying the restrictions on the behavior of arbitrary programs or specified axiom schema, we get both a powerful formal tool an ...

59 [Combinatory foundation of functional programming](#)

Corrado Böhm

August 1982

Proceedings of the 1982 ACM symposium on LISP and functional programming

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A proposal is described for embedding FP and a part of FFP into a system C(IN)V of Combinatory Logic generated by the 6-tuple of combinators (A,B,C*,O,L,D) under the operation of application. At the same time C(IN)V is viewed as an algebraic extension of elementary arithmetic, including addition multiplication and exponentiation, leading to a non commutative semi-ring w ...

60 [VM/4: ACOS-4 virtual machine architecture](#)

S. Nanba, N. Ohno, H. Kubo, H. Morisue, T. Ohshima, H. Yamagishi

June 1985

ACM SIGARCH Computer Architecture News , Proceedings of the 12th annual international symposium on Computer architecture, Volume 13 Issue 3

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age administrator, who enables more **logical volumes** for their use. This is ...

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increased the limit for the number of **logical volumes** to 250000 ... will allow the customer to copy specified **virtual volumes**, or a ...

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... Extension: allows for the capacity growth of existing **logical volumes**. ...

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virtual volumes can be processed in a single CentricStor sys- ... Up to 300000

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... a single storage repository to **extend** to any ... to the pool for reallocation to other
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... allow pooling of the physical devices into large **virtual volumes**. ... array groups, setting up **logical volumes** and configuring ... can be used to **extend** the distance ...

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RAID disks to ESS or MSS-like subsystems, and even **virtual volumes** that ...

a set of **logical volumes** out of the storage volumes it finds at the bottom, and ...

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The VTS writes the **virtual volumes** created by attached servers to the high ...

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in which network- connected storage may be appropriate. ...

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... the remote clients using the AXIS direct-mapped **logical volumes**. ...

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... Several smaller **logical volumes** can be cre- ated from a single large physical disk ...

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... virtualization was to be able to aggregate heterogeneous volumes (ie, storage from different vendors' products) to create **virtual volumes** (thus obviating the ...

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